

ABSTRACT OF THE DISCLOSURE

The invention relates to a general process by which
5 recombinantly derived variable domains of antibodies
encompassing either or both light and heavy variable regions
with or without respective constant regions are engineered and
selected for identification of unique surface domains of
pharmaceutical targets or parts thereof which regulate target
10 function. The recombinant antibodies are useful as reagents
for high volume, rapid screening of occupation of the active
surface domains by natural or synthetic entities. This
invention is also directed to elucidating the three
dimensional conformation of the antibodies, or parts thereof,
15 which bind to the pharmaceutical targets and confers activity.
Methods for creating high resolution molecular models which
can direct the synthesis of biologically active small organic
molecules useful as viable discovery drug leads are also
provided.

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